

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF ADA COMPLIANT RAMPS, INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS ALONG THE NORTH LEG OF THE INTERSECTION. IT ALSO INVOLVES THE REMOVAL OF EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND SIGNS ALONG THE SOUTH LEG OF THE INTERSECTION. MD 36 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH LEG OF THE INTERSECTION. THE MD 36 NORTHBOUND AND SOUTHBOUND LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN. A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 36 (NEW GEORGES CREEK RD):

- WHEN PEDESTRIAN LOCATES AND PASSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS NEW GEORGES CREEK AT OLD NATIONAL. WAIT."
- WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS FOR DISTRICT #6 ARE AS FOLLOWS:

MR. GEORGE SMALL
ASSISTANT DISTRICT ENGINEER-TRAFFIC
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. STEPHEN BUCY
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CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MS. CORREN JOHNSON
DIVISION CHIEF,
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(410)787-7630

MR. ROBERT SNYDER
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(410)787-7631

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CHIEF, SIGNAL OPERATIONS
(410)787-7650

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CHIEF, SIGN OPERATIONS
(410)787-7676

EQUIPMENT LIST "A, B & C"

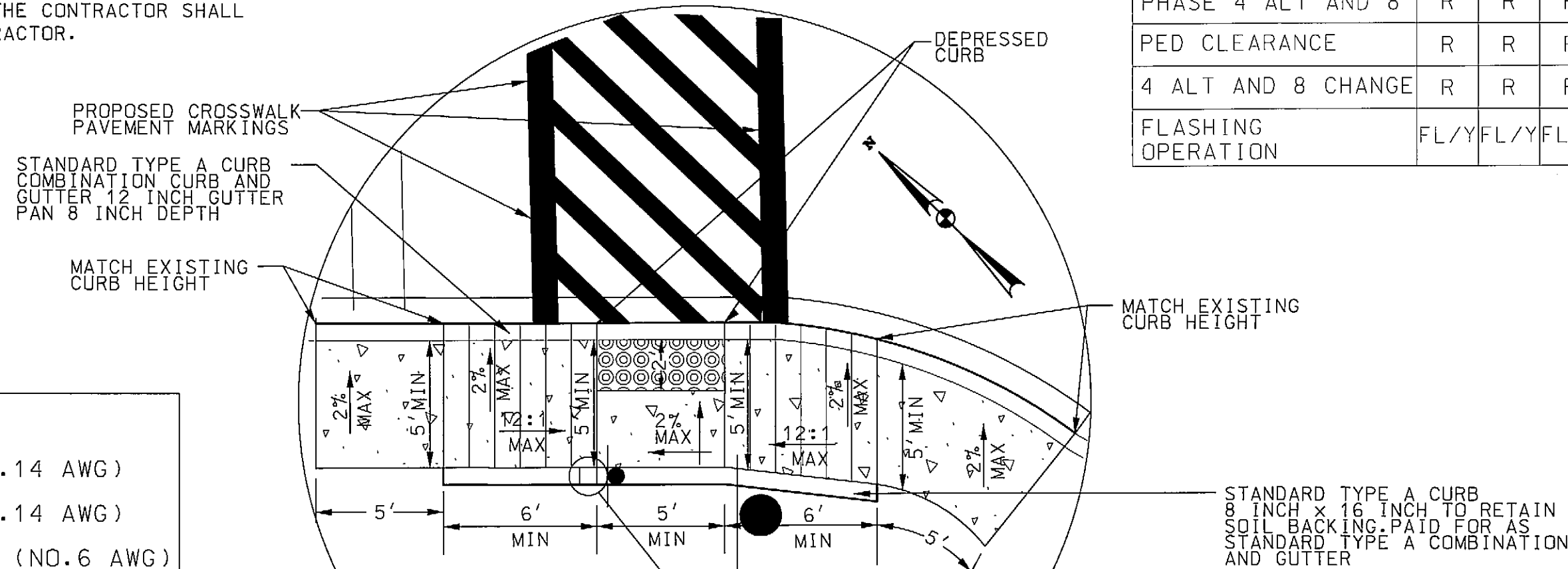
A. EQUIPMENT TO BE SUPPLIED BY THE SHA

9570	SHEET ALUMINUM GROUND MOUNTED SIGN	UNIT	QUANTITY
	4 - S1-1 FYG 36"x36" 1 - R4-7 24"x30"	SF	55
	4 - M6-2(1) FYG 30"x24" 1 - OM1-3 FY 18"x18"		
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN	UNIT	QUANTITY
	2 - R10-3(1) 9"x15"	SF	2

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

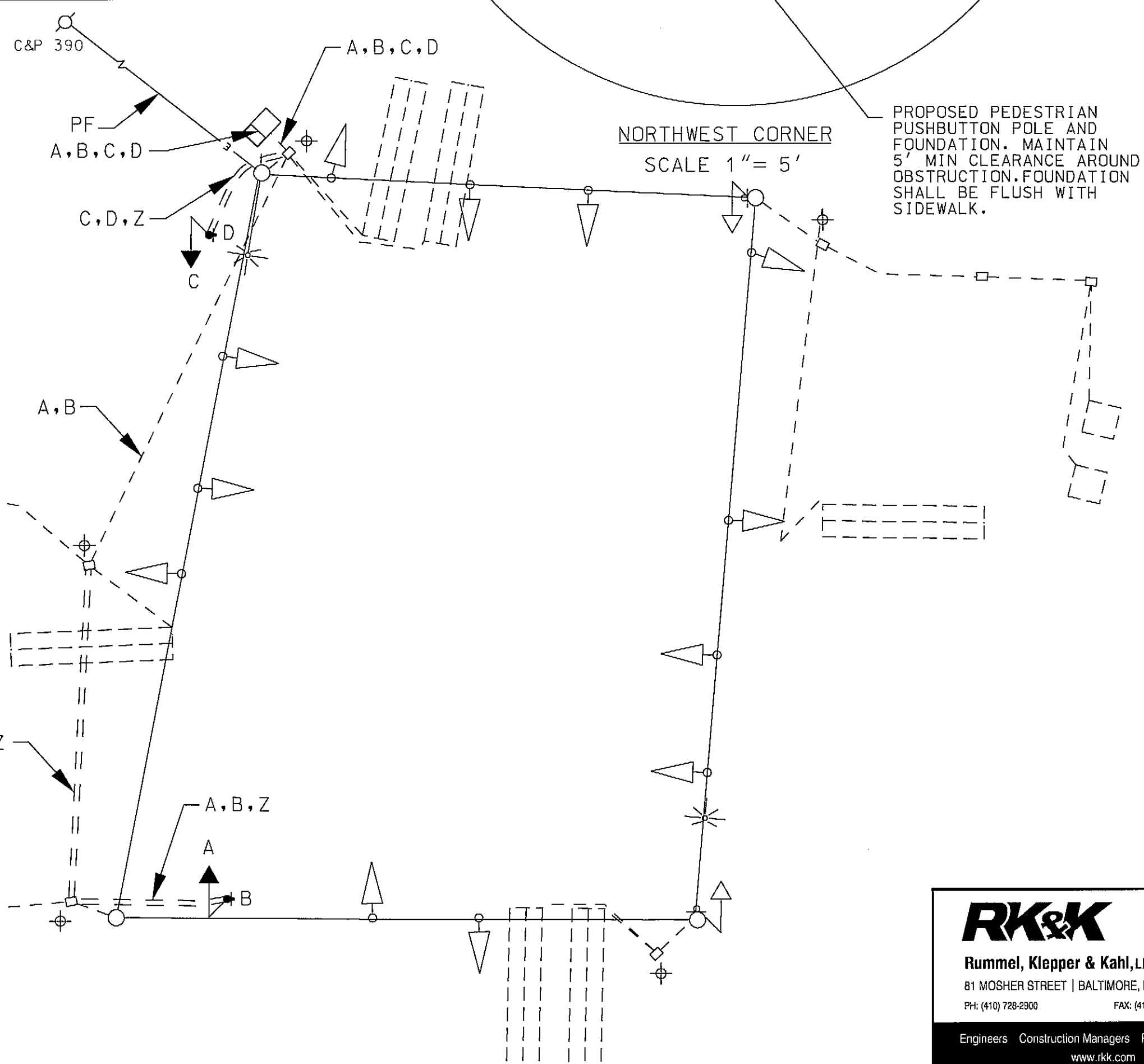
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS	LF	435
5004	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	700
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH	LF	140
6002	5 INCH CONCRETE SIDEWALK	SF	385
6003	DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	21
8002	2-WIRE CENTRAL CONTROL UNIT	EA	1
8008	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	2
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	2
8015	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	2
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8036	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	70
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	60
8039	WOOD SIGN SUPPORTS UP TO 4' X 6'	LF	96
8040	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	57
8042	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	150
8053	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	260
8055	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	260

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.



WIRING KEY

A,C	5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
B,D	2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
Z	STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)
PF	EXISTING POWER FEED
⊕	EXISTING GROUND ROD



PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 AND 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 AND 6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
1 AND 6 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PHASE 2 AND 5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 5 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 4 AND 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4 ALT AND 8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 ALT AND 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y

TOD NO: XX650-28
SHA NO: AL410B52
MD 36 @ MD 743, MD 135 @ MD 36.
MD 658 @ Linda Way, US 220 @ MD 653

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MD MUTCD CHAPTER 4E "PEDESTRIAN CONTROL FEATURES" AND FIGURES 4E-3 AND 4E-4, AND THE LATEST NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE CONTRACTOR SHALL CAP AND ABANDON CONDUITS FEEDING EXISTING SIGNAL EQUIPMENT THAT IS REMOVED.
- THE CONTRACTOR SHALL CONTACT ED RODENHIZER AT THE SIGNAL SHOP (410) 787-7652 TO DELIVER APS EQUIPMENT FOR TESTING.

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 36 (NEW GEORGES CREEK RD) AT
MD 743 (OLD NATIONAL PIKE)
ECKHART MINES, MARYLAND

REVISIONS

GENERAL INFORMATION SHEET

SCALE NONE DATE MARCH 2013 CONTRACT NO. XX6505185

DESIGNED BY GS COUNTY ALLEGANY
DRAWN BY GS LOGMILE 01003616.44
CHECKED BY BJC TMS NO. L651
FAP NO. TOD NO.

TS NO. 3329C-G1 DRAWING SP-8 OF 8 SHEET NO. 10 OF 10

RK&K

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